

Technical data

KEBATER PBT BF515 black

PBT-GF15, PBT, 15% glass fiber reinforced, hydrolysis stabilized, black

Polymer: PBT

ISO designation: PBT-GF15

Productgroup: PBT

Brief description of the product family:

KEBATER is the trade name of our range of thermoplastic polyesters. KEBATER products are characterized by good stiffness and strength, excellent electrical properties, advantageous fire properties and a good price-performance ratio. The product range includes PBT and PBT blends in different variants: unreinforced and glass fiber reinforced, impact modified, flame retardant, warp optimized as well as other compounds tailored to special requirements.

Properties:

dimensionally stable, good chemical resistance, Good electrical properties, good gliding properties, High strength, High stiffness, High wear resistance, hydrolysis stable, semi-crystalline

Typical areas of application:

Electronic components, Housing, Plug, Structural components, Connecting elements

Industries:

Automotive, Electrical and electronics industry, Household appliances, Mechanical Engineering, Sanitary industry

Physical properties

Moisture absorption 23°C/50% r.h. in %. in Anlehnung an ISO 62	0.40
Density in kg/m ³ ISO 1183-1	1380

Mechanical properties

E-modulus in MPa ISO 527-1	5500
Breaking stress in MPa ISO 527-1	90.0
Elongation at break in % ISO 527-1	2.5
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	6.5

Rheological properties

Shrinkage in flow direction in % ISO 294-4	0.40
Shrinkage transverse to the flow direction in % ISO 294-4	1.10

Thermal properties

Heat deflection temperature HDT (1.80 MPa) in °C ISO 75-1/-2	195.0
Heat deflection temperature HDT (0.45 MPa) in °C ISO 75-1/-2	215.0

Electrical properties

Contact resistance in Ohm*m IEC 60093	>1e+13
Surface resistivity in ohms IEC 60093	1e+13
Tracking resistance CTI in V IEC 60112	250

Processing instructions:**Pre-drying:**

Dryer type: dry air dryer.

Temperature: 100 - 120°C

Drying time: 2 - 5 h

Residual moisture: < 0.02%.

Temperatures:

Melt temperature: 240 - 270°C

Mold temperature: 60 - 120°C

Back pressure: max. 40 bar (specific)

Injection speed: medium to high

Legal notices:

The information in this data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during processing and application of our products, they do not exempt the processor from carrying out his own tests and trials. A legally binding assurance of certain properties or suitability for a specific application cannot be derived from our information.

* FE products are development products which are still in the trial phase. Technical data may still change in the course of product and process development. No final decision has yet been made on the commercialization of FE products. We reserve the right to discontinue the manufacture of FE products without giving further reasons.

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